HDP/SB/21 based on PTO/SB/21 (08-00) FEB 0 5 2007 **Application Number** 09/477,880 TRANSMITTAL Filing Date January 5th, 2000 REMET **FORM** Inventor(s) Donalid E. BLAHUT et. al. (to be used for all correspondence after initial filing) **Group Art Unit** 2154 **Examiner Name** Larry D. Donaghue Attorney Docket Number 129250-002093/US/COA ENCLOSURES (check all that apply) Assignment Papers After Allowance Communication to Fee Transmittal Form (for an Application) LETTER SUBMITTING APPEAL Letter to the Official Draftsperson and Fee Attached BRIEF AND APPEAL BRIEF (w/clean __ Sheets of Formal Drawing(s) version of pending claims) Appeal Communication to Group ☐ Amendment Licensing-related Papers (Notice of Appeal Appeal Brief, (2nd CORRECTED) Reply Brief) Petition After Final Proprietary Information Petition to Convert to a Status Letter **Provisional Application** Change of Correspondence Address Extension of Time Request and Revocation/POA (please identify below): Terminal Disclaimer Express Abandonment Request Request for Refund ☐ Information Disclosure Statement CD, Number of CD(s) Certified Copy of Priority Remarks Document(s) Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm CAPITOL PATENT TRADEMARK LAW Reg. No. Attorney Name FIRM PLLC John E. Curtin 37,602 Individual name Signature February 5, 2007 Date







Application No.: 09/477,880

Filing Date:

January 5, 2000

Applicant:

Donald E. BLAHUT et al.

Group Art Unit: 2154

Confirmation No.: 9862

Examiner:

Larry D. Donaghue

Title:

INTERNET PROTOCOL BASED NETWORK ARCHITECTURE

FOR CABLE TELEVISION ACCESS WITH SWITCHED

FALLBACK

Attorney Docket: 129250-002093/US/COA

APPELLANTS' BRIEF ON APPEAL (2nd Corrected Version)

MAIL STOP APPEAL BRIEF - PATENTS

Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22314

February 5, 2007

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APPELLANTS' BRIEF ON APPEAL (Corrected)

I. REAL PARTY IN INTEREST:

The real party in interest in this appeal is Lucent Technologies Inc.

Assignment of the application was submitted to the U.S. Patent and Trademark

Office and recorded at Reel 9163, Frame 0564.

II. RELATED APPEALS AND INTERFERENCES:

There are no known appeals or interferences that will affect, be directly affected by, or have a bearing on the Board's decision in this Appeal.

III. STATUS OF CLAIMS:

Claims 1, 4, 7-10, 12-18, 20, 22-25 and 27-32 are pending in the application. Claims 1, 4, 7, 12, 14, 16-18, 20, 22, 27, 29, 31 and 32 are written in independent form.

Claims 7-10 and 22-25 have been allowed. The Appellants reserve their right to subsequently raise any issues regarding allowed claims 7-10 and 22-25 should it be necessary in this or any other proceeding.

Claims 1, 4, 12-19, 20 and 27-32 have been finally rejected under 35 U.S.C. §102(e)(claim 19 has since been deleted). Claims 2, 5, 19 and 21 were finally rejected under 35 U.S.C. §103(a). Subsequently, claims 2, 5, 19 and 21 were cancelled in the AAF entered by the Examiner, their subject matter having been placed into independent claims 1, 4, 12, 14, 16-18, 20, 27, 29, 31 and 32.

Claims 1, 4, 12-18, 20 and 27-32 are being appealed.

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IV. STATUS OF AMENDMENTS:

An Amendment After Final ("AAF") was filed on June 2, 2006. In an Advisory Action mailed August 7, 2006 ("Advisory") the Examiner stated that the AAF was considered; however, the AAF did not place the application in condition for allowance. Appellants note that because the Advisory was mailed after the 3 month shortened statutory time period which expired on July 5th, 2006 any extension of time fees associated with this appeal should be calculated from the date of the Advisory, namely, from August 7, 2006.

V. SUMMARY OF CLAIMED SUBJECT MATTER:

(i) Overview of the Subject Matter of the Independent Claims

Being Appealed

In general, the present invention is directed at methods and devices for providing Internet service to an "endpoint" using an alternative/secondary (collectively "secondary"), Internet Protocol (IP) address.

(a) Claim 1

More specifically, independent claim 1 is directed to:

1. A method for use in providing Internet service to an endpoint, the method comprising the steps of:

specifying routing information for an endpoint, wherein the routing information specifies primary and alternative Internet Protocol (IP) addresses; and

communicating data to the endpoint using the specified primary IP address except during periods of service interruption in which one of the alternative IP addresses are used by

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establishing an IP tunnel to the endpoint using one of the alternative IP addresses.

(see, for example, the Specification p. 6, line 5 to page 7, line 1).

(b) <u>Claim 4</u>

Similarly, independent claim 4 is directed to:

4. A method for use in providing Internet service to an endpoint via a primary communications channel, the method comprising the steps of:

storing a routing table comprising an first Internet Protocol (IP) address associated with routing data to an endpoint via the primary communications channel and a second IP address associated with routing data to the endpoint over a secondary communications channel; and

routing data to the endpoint as a function of the routing table such that during periods of service interruption on the primary communications channel data is routed to the endpoint via the secondary communications channel by establishing an IP tunnel to the endpoint using the second IP address,

whereas data is routed to the endpoint via the primary communications channel otherwise.

(see, for example, the Specification p. 6, line 5 to page 7, line 1)

Independent claim 7 reads as follows:

(c) <u>Claim 7</u>

7. A method of communicating over a cable television (CATV) access network having a cable modem termination system (CMTS) interface, the method comprising the steps of:

establishing a connection between the CMTS and a distant cable modem (CM) logically derived from an Internet Service Provider (ISP) subnetwork identifier of a Network Access Server (NAS) of the ISP;

storing routing information associated with the connection, the routing information including at least a CM identifier, an identity of an RF link on the CATV access network over which the CMTS forwards data packets to the CM, and a tunnel interface identifier over which the CMTS forwards data packets to the CM over a different network; and

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communicating data packets to the CM by translating the CM identifier to either the identified RF link or the tunnel interface identifier, wherein the tunnel is invoked in the event of a CATV interface failure.

(see, for example, the Specification p. 6, line 5 to page 9, line 11).

(d) Claim 12

Independent claim 12 is also directed at an:

- 12. Apparatus for use in providing Internet service to an endpoint, the apparatus comprising:
- a device for (a) specifying routing information for an endpoint, wherein the routing information specifies primary and alternative Internet Protocol (IP) addresses, and (b) communicating data to the endpoint using the specified primary IP address except during periods of service interruption in which one of the alternative IP addresses are used by (c) establishing an IP tunnel to the endpoint using an alternative IP address.

(see, for example, the Specification p. 6, line 5 to page 7, line 1).

(e) <u>Claim 14</u>

Independent claim 14 is directed at an:

- 14. Apparatus for use in providing Internet service to an endpoint, the apparatus comprising:
- a device for routing data to the endpoint as a function of a routing table stored therein such that during periods of service interruption on a primary communications channel associated with a primary IP address data is routed to the endpoint via a secondary communications channel associated with a secondary IP address by establishing an IP tunnel to the endpoint using the secondary IP address, whereas data is routed to the endpoint via the primary communications channel otherwise.

(see, for example, the Specification p. 6, line 5 to page 7, line 1).

(f) Claim 16

Independent claim 16 is directed at:

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16. A system for use in providing Internet service, the system comprising:

a cable head-end router for providing Internet Protocol (IP) packets intended for subsequent conveyance over a primary channel; and

a cable modem data termination system responsive to the provided IP packets for routing the IP packets to an endpoint as a function of a routing table stored therein such that during periods of service interruption on the primary communications channel the IP packets are routed to the endpoint via a secondary communications channel associated with a secondary IP address by establishing an IP tunnel to the endpoint using the secondary IP address, whereas the IP packets are routed to the endpoint via the primary communications channel associated with a primary IP address otherwise.

(see, for example, the Specification p. 6, line 5 to page 7, line 1)

(g) Claim 17

Independent claim 17 is directed at:

17. A system for use in providing Internet service, the system comprising:

a cable head-end router for providing Internet Protocol (IP) packets that include a destination field having a value associated with a first IP address; and

a cable modem data termination system responsive to the provided IP packets for communicating the IP packets to the endpoint using the first IP address except during periods of service interruption in which an alternative IP address is used by establishing an IP tunnel to the endpoint using the alternative IP address.

(see, for example, the Specification p.5, lines 6-11 and p. 6, line 5 to page 7, line 1).

(h) Claim 18

Independent claim 18 is directed at:

18. A method for use in providing Internet service to an endpoint, the method comprising the steps of:

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specifying routing information for an endpoint, wherein the routing information specifies primary and alternative Internet Protocol (IP) addresses; and

communicating data to the endpoint using the specified primary IP address over a first cable-based communications channel except during periods of service interruption in which one of the alternative IP addresses are used for communicating over a second non-cable-based communications channel by establishing an IP tunnel to the endpoint using one of the alternative IP addresses over the non-cable channel.

(see, for example, the Specification p. 6, line 5 to page 7, line 1)

(i) <u>Claim 20</u>

Independent claim 20 is directed at:

20. A method for use in providing Internet service to an endpoint via a primary communications channel, the method comprising the steps of:

storing a routing table comprising an first-Internet Protocol (IP) address associated with routing data to an endpoint via the primary communications channel and a second IP address associated with routing data to the endpoint over a secondary communications channel; and

routing data to the endpoint as a function of the routing table such that during periods of service interruption on the primary communications channel data is routed to the endpoint via the secondary communications channel by establishing an IP tunnel to the endpoint using the second IP address, whereas data is routed to the endpoint via the primary communications channel otherwise and wherein the primary communications channel and the secondary communications channel are supported by physically different communications mediums.

(see, for example, the Specification p. 6, line 5 to page 7, line 1)

(j) Claim 22

Independent claim 22 is directed at:

22. A method of communicating over a cable television (CATV) access network having a cable modem termination system (CMTS) interface, the method comprising the steps of:

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establishing a connection between the CMTS and a distant cable modem (CM) logically derived from an Internet Service Provider (ISP) subnetwork identifier of a Network Access Server (NAS) of the ISP;

storing routing information associated with the connection, the routing information including at least a CM identifier, an identity of an RF link on the CATV access network over which the CMTS forwards data packets to the CM, and a tunnel interface identifier over which the CMTS forwards data packets to the CM over a switched telephone network; and

communicating data packets to the CM by translating the CM identifier to either the identified RF link or the tunnel interface identifier, wherein the tunnel is invoked in the event of a CATV interface failure.

(see, for example, the Specification p. 6, line 5 to page 9, line 11).

(k) <u>Claim 27</u>

Independent claim 27 is directed at an:

27. Apparatus for use in providing Internet service to an endpoint, the apparatus comprising:

a device for (a) specifying routing information for an endpoint, wherein the routing information specifies primary and alternative Internet Protocol (IP) addresses, and (b) communicating data to the endpoint using the specified primary IP address over a first cable-based channel except during periods of service interruption in which one of the alternative IP addresses are used for communicating data over a second non-cable-based communications channel by (c) establishing an IP tunnel to the endpoint using an alternative IP address over the non-cable channel.

(see, for example, the Specification p. 6, line 5 to page 7, line 1)

(l) Claim 29

Independent claim 29 is directed at an:

29. Apparatus for use in providing Internet service to an endpoint, the apparatus comprising:

a device for routing data to the endpoint as a function of a routing table stored therein such that during periods of service interruption on a primary communications channel associated with a primary IP address U.S. Application No.: 09/477,880 Atty. Docket: 129250-002093/US

data is routed to the endpoint via a secondary communications channel associated with a secondary IP address by establishing an IP tunnel to the endpoint using the secondary IP address, whereas data is routed to the endpoint via the primary communications channel otherwise and wherein the primary communications channel is physically different from the secondary communications channel.

(see, for example, the Specification p. 6, line 5 to page 7, line 1).

(m) Claim 31

Independent claim 31 is directed at:

- 31. A system for use in providing Internet service, the system comprising:
- a cable head-end router for providing Internet Protocol (IP) packets intended for subsequent conveyance over a primary cable channel; and
- a cable modem data termination system responsive to the provided IP packets for routing the IP packets to an endpoint as a function of a routing table stored therein such that during periods of service interruption on the primary cable channel the IP packets are routed to the endpoint via a secondary non-cable communications channel associated with a secondary IP address by establishing an IP tunnel to the endpoint using the secondary IP address, whereas the IP packets are routed to the endpoint via the primary cable channel associated with a primary IP address otherwise.

(see, for example, the Specification p.5, lines 6-11 and p. 6, line 5 to page 7, line 1).

(n) Claim 32

Independent claim 32 is directed at:

- 32. A system for use in providing Internet service, the system comprising:
- a cable head-end router for providing Internet Protocol (IP) packets that include a destination field having a value associated with a first IP address; and
- a cable modem data termination system responsive to the provided IP packets for communicating the IP packets to the endpoint over a cablebased communications channel using the first IP address except during

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periods of service interruption in which an alternative IP address is used for communicating the IP packets to the endpoint over a non-cable-based communications channel by establishing an IP tunnel to the endpoint using an alternative IP address over the non-cable channel.

(see, for example, the Specification p.5, lines 6-11 and p. 6, line 5 to page 7, line 1)

In order to make the overview set forth above concise, and thus useful to the members of the Board, the Appellants note that the disclosure that has been included, or referred to, above represents only a portion of the total disclosure set forth in the Specification that supports the independent claims.

(ii) The Remainder of the Specification Also Supports the Claims

The Appellants further note that there may be additional disclosure in the Specification that also supports the independent and dependent claims. Further, by presenting the disclosure above the Appellants do not represent that this is the only evidence that supports the independent claims nor do Appellants necessarily represent that this disclosure can be used to fully interpret the claims of the present invention. Instead, this disclosure is an overview of the claimed subject matter.

VI. GROUNDS OF REJECTION TO BE REVIEWED ON APPEAL:

Appellants seek the Board's review and reversal of the Examiner's: (1) rejection of claims 1, 4, 12-18, 20 and 27-32 under 35 U.S.C. §102(e) as being anticipated by Hrastar et al., U.S. Patent No. 6,286,058 ("Hrastar"); and (2)

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rejection of claims 2, 5, 19 and 21 under 35 U.S.C. §103(a) based on the

combination of Hrastar in view Nordman, U.S. Patent No. 6,061,346

("Nordman"). Because dependent claims 2, 5, 19 and 21 have been cancelled

and their subject matter placed into independent claims 1, 4, 12, 14, 16-18,

20, 27, 29, 31 and 32 the §103(a) rejections are now, in effect, applicable to the

independent claims.

VII. ARGUMENTS:

The Section 102(e) Rejections **A.**)

Claims 1, 4, 12-18, 20 and 27-32 were rejected under 35 U.S.C. §102(e)

as being anticipated by Hrastar. Appellants respectfully disagree for at least

the following reasons.

Each of the claims of the present application includes the feature of

establishing an IP tunnel to an endpoint using an alternative or secondary IP

address. Appellants note the Examiner's acknowledgement in the Final Office

Action that Hrastar does not disclose the establishment of such an IP tunnel to

an endpoint using an alternative/secondary IP address.

Because Hrastar does not disclose each element of the claims of the

present invention Hrastar cannot anticipate these claims.

Accordingly, Appellants respectfully request that the members of the

Board reverse the decision of the Examiner and allow claims 1, 4, 12-18, 20

and 27-32.

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B.) The Section 103 Rejections

Claims 2, 5, 19 and 21 were rejected under 35 U.S.C. §103(a) as being

unpatentable over Hrastar in view Nordman. Appellants respectfully disagree

for at least the following reasons. Before proceeding, the Appellants again note

that these claims have been cancelled and their subject matter placed into the

independent claims mentioned above. Accordingly, it is to the independent

claims that the following remarks are directed.

There is No Motivation To Combine Hrastar and Nordman (i)

The Appellants respectfully submit that one of ordinary skill in the art,

upon reading the disclosures of Hrastar and Nordman, would not combine the

two because there is no motivation, suggestion or teaching of a desirability of

making such a combination. More specifically, the Examiner is relying on the

combination of Hrastar and Nordham as suggesting the claimed methods of

providing Internet service to an endpoint, including the step of establishing an

IP tunnel to an endpoint using a secondary IP address.

Taking the last basis first, Hrastar does not explicitly disclose that its

CATV packet rerouting methods can use, could use, or need to use the

purported tunneled, secondary IP addresses disclosed in Nordham. Hrastar

either uses a CATV address or a primary IP address; there is no suggestion in

Hrastar that, if its CATV or primary IP address is not available, it can use a

tunneled, secondary IP address.

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Nor does Hrastar imply that it can use, could use, or need to use the

purported tunneled, secondary IP addresses in Nordham; thus, there is no

suggestion or motivation to combine the two.

Further, the Appellants respectfully remind the Examiner that the fact

that the Examiner may somehow combine the references does not render the

subject matter of the claims obvious unless one or more of the references

suggest the desirability of such a combination. Absent any mention whatsoever

in Hrastar of a need to use tunneled, secondary IP addresses, the Appellants

respectfully submit that there is no motivation provided by Hrastar that would

cause one of ordinary skill in the art to combine it with Nordham (or vice-versa)

as proposed by the Examiner.

The Combination of Hrastar and Nordman is Impermissible (ii)

The Appellants respectfully submit that the combination of Hrastar and

Nordman is impermissible because such a combination requires either one or

both of these references to change their principle of operation, which is

impermissible (MPEP 2143.01). For example, Hrastar is directed to a CATV

system while Nordman is directed to a wireless system. Either Hrastar's

principle of operation would have to be changed so that it would be compatible

with the wireless system of Nordman or Nordman's wireless system would have

to be changed to be compatible with the CATV system of Hrastar. Neither is

permissible.

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In the Final Office Action (page 6) the Examiner's states his disagreement

with the Appellants' position. In explaining his position the totality of the

Examiner's position in rebuttal is that the combination of Hrastar and

Nordman is permissible because both are "directed to routing data in a

network". The Appellants respectfully submit that this is not a sufficient basis

for combining the two references. Regardless of the words used to, broadly

speaking, characterize the references the fact remains that one skilled in the

art would recognize that such a combination would indeed require one or both

of the references to change their principle of operation. This is impermissible as

noted above.

Accordingly, Appellants respectfully request that the members of

the Board reverse the decision of the Examiner and allow independent claims,

1, 4, 12, 14, 16-18, 20, 27, 29, 31 and 32 and those claims that depend from

them.

Conclusion:

For the reasons stated above, the Appellants respectfully request that the

members of the Board reverse the Examiner's rejections and allow claims 1, 4,

12-18, 20 and 27-32.

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Respectfully submitted,

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VIII. CLAIMS APPENDIX

1. A method for use in providing Internet service to an endpoint, the

method comprising the steps of:

specifying routing information for an endpoint, wherein the routing

information specifies primary and alternative Internet Protocol (IP) addresses;

and

communicating data to the endpoint using the specified primary IP

address except during periods of service interruption in which one of the

alternative IP addresses are used by

establishing an IP tunnel to the endpoint using one of the alternative IP

addresses.

2. (Cancelled).

3. (Cancelled).

A method for use in providing Internet service to an endpoint via a

primary communications channel, the method comprising the steps of:

storing a routing table comprising an first Internet Protocol (IP) address

associated with routing data to an endpoint via the primary communications

channel and a second IP address associated with routing data to the endpoint

over a secondary communications channel; and

routing data to the endpoint as a function of the routing table such that

during periods of service interruption on the primary communications channel

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data is routed to the endpoint via the secondary communications channel by

establishing an IP tunnel to the endpoint using the second IP address.

whereas data is routed to the endpoint via the primary communications

channel otherwise.

5. (Cancelled).

6. (Cancelled).

A method of communicating over a cable television (CATV) access 7.

network having a cable modem termination system (CMTS) interface, the

method comprising the steps of:

establishing a connection between the CMTS and a distant cable modem

(CM) logically derived from an Internet Service Provider (ISP) subnetwork

identifier of a Network Access Server (NAS) of the ISP;

storing routing information associated with the connection, the routing

information including at least a CM identifier, an identity of an RF link on the

CATV access network over which the CMTS forwards data packets to the CM,

and a tunnel interface identifier over which the CMTS forwards data packets to

the CM over a different network; and

communicating data packets to the CM by translating the CM identifier

to either the identified RF link or the tunnel interface identifier, wherein the

tunnel is invoked in the event of a CATV interface failure.

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8. The method of claim 7 wherein CATV access network provides one-

way, or downstream, communications to the CM.

9. The method of claim 7 wherein CATV access network provides two-

way communications to the CM.

10. The method of claim 7 wherein the CM identifier over the CATV

network is logically derived from a CMTS subnetwork identifier of the CMTS.

(Cancelled) 11.

12. Apparatus for use in providing Internet service to an endpoint, the

apparatus comprising:

a device for (a) specifying routing information for an endpoint, wherein

the routing information specifies primary and alternative Internet Protocol (IP)

addresses, and (b) communicating data to the endpoint using the specified

primary IP address except during periods of service interruption in which one

of the alternative IP addresses are used by (c) establishing an IP tunnel to the

endpoint using an alternative IP address.

13. The apparatus of claim 12 wherein the device is a part of a cable

television network (CATV).

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14. Apparatus for use in providing Internet service to an endpoint, the

apparatus comprising:

a device for routing data to the endpoint as a function of a routing table

stored therein such that during periods of service interruption on a primary

communications channel associated with a primary IP address data is routed

to the endpoint via a secondary communications channel associated with a

secondary IP address by establishing an IP tunnel to the endpoint using the

secondary IP address, whereas data is routed to the endpoint via the primary

communications channel otherwise.

The apparatus of claim 14 wherein the device is a part of a cable 15.

television network (CATV).

A system for use in providing Internet service, the system

comprising:

a cable head-end router for providing Internet Protocol (IP) packets

intended for subsequent conveyance over a primary channel; and

a cable modem data termination system responsive to the provided IP

packets for routing the IP packets to an endpoint as a function of a routing

table stored therein such that during periods of service interruption on the

primary communications channel the IP packets are routed to the endpoint via

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a secondary communications channel associated with a secondary IP address

by establishing an IP tunnel to the endpoint using the secondary IP address,

whereas the IP packets are routed to the endpoint via the primary

communications channel associated with a primary IP address otherwise.

17. A system for use in providing Internet service, the system

comprising:

a cable head-end router for providing Internet Protocol (IP) packets that

include a destination field having a value associated with a first IP address;

and

a cable modem data termination system responsive to the provided IP

packets for communicating the IP packets to the endpoint using the first IP

address except during periods of service interruption in which an alternative IP

address is used by establishing an IP tunnel to the endpoint using the

alternative IP address.

18. A method for use in providing Internet service to an endpoint, the

method comprising the steps of:

specifying routing information for an endpoint, wherein the routing

information specifies primary and alternative Internet Protocol (IP) addresses;

and

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communicating data to the endpoint using the specified primary IP

address over a first cable-based communications channel except during

periods of service interruption in which one of the alternative IP addresses are

used for communicating over a second non-cable-based communications

channel by establishing an IP tunnel to the endpoint using one of the

alternative IP addresses over the non-cable channel.

(Cancelled) 19.

A method for use in providing Internet service to an endpoint via a 20.

primary communications channel, the method comprising the steps of:

storing a routing table comprising an first-Internet Protocol (IP) address

associated with routing data to an endpoint via the primary communications

channel and a second IP address associated with routing data to the endpoint

over a secondary communications channel; and

routing data to the endpoint as a function of the routing table such that

during periods of service interruption on the primary communications channel

data is routed to the endpoint via the secondary communications channel by

establishing an IP tunnel to the endpoint using the second IP address, whereas

data is routed to the endpoint via the primary communications channel

otherwise and wherein the primary communications channel and the

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secondary communications channel are supported by physically different

communications mediums.

21. (Cancelled).

A method of communicating over a cable television (CATV) access 22.

network having a cable modem termination system (CMTS) interface, the

method comprising the steps of:

establishing a connection between the CMTS and a distant cable modem

(CM) logically derived from an Internet Service Provider (ISP) subnetwork

identifier of a Network Access Server (NAS) of the ISP;

storing routing information associated with the connection, the routing

information including at least a CM identifier, an identity of an RF link on the

CATV access network over which the CMTS forwards data packets to the CM,

and a tunnel interface identifier over which the CMTS forwards data packets to

the CM over a switched telephone network; and

communicating data packets to the CM by translating the CM identifier

to either the identified RF link or the tunnel interface identifier, wherein the

tunnel is invoked in the event of a CATV interface failure.

The method of claim 22 wherein CATV access network provides 23.

one-way, or downstream, communications to the CM.

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The method of claim 22 wherein CATV access network provides 24.

two-way communications to the CM.

The method of claim 22 wherein the CM identifier over the CATV 25.

network is logically derived from a CMTS subnetwork identifier of the CMTS.

(Cancelled) 26.

Apparatus for use in providing Internet service to an endpoint, the 27.

apparatus comprising:

a device for (a) specifying routing information for an endpoint, wherein

the routing information specifies primary and alternative Internet Protocol (IP)

addresses, and (b) communicating data to the endpoint using the specified

primary IP address over a first cable-based channel except during periods of

service interruption in which one of the alternative IP addresses are used for

communicating data over a second non-cable-based communications channel

by (c) establishing an IP tunnel to the endpoint using an alternative IP address

over the non-cable channel.

The apparatus of claim 27 wherein the device is a part of a cable 28.

television network (CATV).

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29. Apparatus for use in providing Internet service to an endpoint, the

apparatus comprising:

a device for routing data to the endpoint as a function of a routing table

stored therein such that during periods of service interruption on a primary

communications channel associated with a primary IP address data is routed

to the endpoint via a secondary communications channel associated with a

secondary IP address by establishing an IP tunnel to the endpoint using the

secondary IP address, whereas data is routed to the endpoint via the primary

communications channel otherwise and wherein the primary communications

channel is physically different from the secondary communications channel.

30. The apparatus of claim 29 wherein the device is a part of a cable

television network (CATV).

A system for use in providing Internet service, the system 31.

comprising:

a cable head-end router for providing Internet Protocol (IP) packets

intended for subsequent conveyance over a primary cable channel; and

a cable modem data termination system responsive to the provided IP

packets for routing the IP packets to an endpoint as a function of a routing

table stored therein such that during periods of service interruption on the

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primary cable channel the IP packets are routed to the endpoint via a

secondary non-cable communications channel associated with a secondary IP

address by establishing an IP tunnel to the endpoint using the secondaary IP

address, whereas the IP packets are routed to the endpoint via the primary

cable channel associated with a primary IP address otherwise.

A system for use in providing Internet service, the system

comprising:

a cable head-end router for providing Internet Protocol (IP) packets that

include a destination field having a value associated with a first IP address;

and

a cable modem data termination system responsive to the provided IP

packets for communicating the IP packets to the endpoint over a cable-based

communications channel using the first IP address except during periods of

service interruption in which an alternative IP address is used for

communicating the IP packets to the endpoint over a non-cable-based

communications channel by establishing an IP tunnel to the endpoint using

an alternative IP address over the non-cable channel.

EVIDENCE APPENDIX IX.

A terminal disclaimer has been filed in this application in accordance

with 37 CFR 1.130(b) (copy attached) to overcome non-statutory double

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patenting rejections based on U.S. Patent No. 6,065,061 ('061Patent) which is commonly owned by Lucent Technologies, Inc.

X. RELATED PROCEEDINGS APPENDIX

No related proceedings are known by the Appellants' present attorneys at this time. If the Appellants' present attorneys learn of any such decisions rendered in the '061 Patent they will promptly file an amended brief and bring any such decisions to the attention of the Examiner and members of the Board.

FEB 0 5 2007

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TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PAT	ENTING
REJECTION OVER A PRIOR PATENT	

Docket Number (Optional) 9250-002093/ÙS/COA

In re Application of: Donald E. BLAHUT et al.

Application No. 09/477,880

Filed: January 5, 2000

For: INTERNET PROTOCOL BASED NETWORK ARCHITECTURE FOR CABLE TELE VISION ACCESS WITH SWTICHED FALLBACK

Lucent Technologies Inc. (hereinafter "the Owner")

residing at

 $\overline{\boxtimes}$ a corporation of Delaware having a principal place of business at 600 MOUNTAIN Avenue,

Murry Hill, New Jersey 07974-0636,

a university having an address of

represents that it is the true owner of the entire interest of U.S. patent Application No. 09/477,880, filed on January 5, 2000, for "Internet Protocol Based Network Architecture For Cable Television Access With Switched Fallback" (hereinafter "instant application") by virtue of and as evidenced by an Assignment recorded at the United States Patent and Trademark Office at Reel 9163, Frame(s) 0564.

The owner*, Lucent Technologies Inc. of 100 percent interest in the instant application hereby disclaims. except as provided below, the terminal part of the statutory term of any patent granted on the instant application, which would extend beyond the expiration date of the full statutory term defined in 35 U.S.C. 154 to 156 and 173, as presently shortened by any terminal disclaimer, of prior Patent No. 6,065,061. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the prior patent are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the owner does not disclaim the terminal part of any patent granted on the instant application that would extend to the expiration date of the full statutory term as defined in 35 U.S.C. 154 to 156 and 173 of the prior patent, as presently shortened by any terminal disclaimer, in the event that it later: expires for failure to pay a maintenance fee, is held unenforceable, is found invalid by a court of competent jurisdiction, is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321, has all claims cancelled by a reexamination certificate, is reissued, or is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

Check either box 1 or 2 below, if appropriate.

1. 🔯 For submissions on behalf of an organization (e.g., corporation, partnership, university, government agency, etc.), the undersigned is empowered to act on behalf of the organization.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

2. The undersigned is an attorney of record.

09/14/2005

Signature

Date

John E. Curtin

Reg. No. 37,602

Typed or printed name

Terminal disclaimer fee under 37 CFR 1.20(\$) js included.

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*Certification under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner). Form PTO/SB/96 may be used for making this certification. See MPEP § 324.

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